

Angle, deformation and DAO (Dihedral Angle Off-set) Analysys of the corner cube mirror for LL

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We have a plan to install the corner cube mirror which has about 20cm aperture on the moon as part of a next SELENE project. The purpose is to explain the internal structure and the origin of the moon by measuring and analysing the distance between the moon and the earth with cm order accuracy. In order to actualize such a precise measurement, we have to manufacture the CCM with 0.1 sec angular precision and less the $\lambda/10$ flatness for the mirror surface. In this presentation, we show the optical response analysis for deriving these degree of precision.

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